

Recovery Plan Action Status

Plan Name: Socorro Isopod

Plan Status: Final

Plan Date: 16-Feb-82

Lead Agency: USFWS

Lead Office: New Mexico Ecological Services Field Office

(505)

346-2525)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Socorro isopod (Thermosphaeroma thermophilus)	2	11	Data collection on population and habitat	Ongoing Current	FY 1995 - FY 1999	FY 2000 - FY 2004	New Mexico Department of Game and Fish, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 2	Research: Habitat Requirements, Research: Management Techniques, Research: Population Surveys	Contract, Species Expert	Annual surveys were conducted by Brian Lang, NMDGF invertebrate biologist under a section 6 grant.
Socorro isopod (Thermosphaeroma thermophilus)	1	121	Provide for permanent flow of water	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Division of Realty, New Mexico Department of Game and Fish, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 2	Acquisition: Easement	Contract	A perpetual easement was entered into between the City of Socorro and Jacob Sedillo in 1950 which provides 5 gallons per minute to the Socorro isopod habitat. Additional security of this easement and additional water would be desirable.
Socorro isopod (Thermosphaeroma thermophilus)	1	1221	Prevent contamination	Not Started			U.S. Fish and Wildlife Service, Division of Realty, New Mexico Department of Game and Fish, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	FY Costs: Partially covered by easement. Compliance checks included in monitoring (1225) funds. Easement acquisition necessary prior to implementation
Socorro isopod (Thermosphaeroma thermophilus)	1	1222	Prevent loss of soil and vegetation	Not Started			U.S. Fish and Wildlife Service, Division of Realty, New Mexico Department of Game and Fish, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Same as A2-1221

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Socorro isopod (Thermosphaeroma thermophilus)	1	1223	Prevent introduction of predatory or competitive species	Not Started			U.S. Fish and Wildlife Service, Division of Realty, New Mexico Department of Game and Fish, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Same as A2-1222
Socorro isopod (Thermosphaeroma thermophilus)	1	1224	Fence existing pool	Not Started			U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	
Socorro isopod (Thermosphaeroma thermophilus)	1	1225	Monitor existing population	Ongoing Current	FY 1995 - FY 1999		New Mexico Department of Game and Fish, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 2	Research: Demographic Studies, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Population Surveys	Contract, Species Expert	Annual surveys were conducted by Brian Lang, NMDGF invertebrate biologist under a section 6 grant.
Socorro isopod (Thermosphaeroma thermophilus)	1	131	Acquire additional flows of water	Not Started			U.S. Fish and Wildlife Service, Division of Realty, New Mexico Department of Game and Fish, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	A perpetual easement was entered into between the City of Socorro and Jacob Sedillo in 1950 which provides 5 gallons per minute to the Socorro isopod habitat. Additional security of this easement and additional water would be desirable.

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Socorro isopod (Thermosphaeroma thermophilus)	3	132	Expand "Evergreen" Water System	Ongoing Current	FY 1995 - FY 1999		New Mexico Department of Game and Fish, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 2	Management: Habitat Maintenance and Manipulation	Contract, Species Expert	The establishment of the Socorro Isopod Propagation Facility depended on this action. Modifications to the facility continue as needed and to benefit experimental manipulations of the population. However, this does not involve acquisition of additional water.
Socorro isopod (Thermosphaeroma thermophilus)	3	221	Determine feasibility of expansion to nearby springs	Obsolete			New Mexico Department of Game and Fish, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	This action will not be pursued as natural springs have an endemic invertebrate fauna an introducing the isopod would not be advisable.
Socorro isopod (Thermosphaeroma thermophilus)	3	221	Easement acquisition on Ft. Harmony Spring	Obsolete			New Mexico Department of Game and Fish, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	This action will not be done.
Socorro isopod (Thermosphaeroma thermophilus)	3	222	Enhance Ft. Harmony habitat	Obsolete			New Mexico Department of Game and Fish, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	This action will not be done.
Socorro isopod (Thermosphaeroma thermophilus)	3	223	Introduce Isopod	Complete	Prior to FY 1995	Prior to FY 1995	New Mexico Department of Game and Fish, USFWS Regional Office 2	Management: Reintroduction	Contract, Species Expert	The Socorro isopod was reintroduced into its native spring in 1988 from a population held at the Albuquerque Biological park. The isopod was introduced to the Socorro isopod propagation facility in 1990 from individuals occurring in its native spring. It is not anticipated that it will be introduced to any naturally occurring springs.

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Socorro isopod (Thermosphaeroma thermophilus)	3	23	Monitor population and habitat of introduced population	Ongoing Current	FY 1995 - FY 1999		New Mexico Department of Game and Fish, USFWS Regional Office 2	Research: Demographic Studies, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Population Surveys, Research: Propagation	Contract	Annual surveys of the propagated isopods and naturally occurring isopods are conducted by Brian Lang, NMDGF invertebrate biologist under a section 6 grant.
Socorro isopod (Thermosphaeroma thermophilus)	1	3	Maintain captive populations	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 2	Research: Propagation	Contract, Species Expert	Two populations are maintained, one at the Albuquerque Biological Park and the other at the Socorro Isopod Propagation Facility.
Socorro isopod (Thermosphaeroma thermophilus)	1	42	Enforce laws protection species	Not Started			U.S. Fish and Wildlife Service, Law Enforcement Division, New Mexico Department of Game and Fish, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	
Socorro isopod (Thermosphaeroma thermophilus)	2	5	Disseminate information	Ongoing Current	FY 2005		U.S. Fish and Wildlife Service, Public Affairs, New Mexico Department of Game and Fish, USFWS Regional Office 2	Research: Demographic Studies, Research: Genetics, Research: Habitat Requirements, Research: Management Techniques, Research: Propagation	Contract, Graduate Student, Species Expert	One paper has been published and others have been submitted for publication on the Socorro Isopod.